

12-16-82

CASE GS0097

CHLOROTHALONIL

PM 400 -08/03/82

CHEM 081901

Chlorothalonil (tetrachloroisophthalon

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 06 - WETTABLE POWDER (WP OR W)

FICHE/MASTER ID 00087304

CONTENT CAT 01

Pitcher, F. (1972) @Tetrachloroisophthalonitrile: Rainbow Trout
(#~Salmo gairdneri~#)1; Test No. 504. (U.S. Agricultural Re-
search Service, Pesticides Regulation Div., Animal Biology Labo-
ratory; unpublished study; CDL:130254-A)

SUBST. CLASS = S,

DIRECT RVW TIME =

(MM) START-DATE

END DATE

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

Daniel Rieder

Wildlife Biologist ✓

EEB/HED

557-7666

SIGNATURE:

Daniel Rieder

SS

DATE:

12/16/82

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

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1. Chemical: Chlorothalonil

Sha #: 081901

2. Formulation: 75% tetrachloroisophthalonitrile3. Citation: Pitcher, F. 1972. Tetrachloroisophthalonitrile:

Rainbow Trout (Salmo gairdneri): Test No. 504.
Unpublished study by U.S. Agric. Research Service, Pesticide
Regulation Div., Animal Biology Laboratory.
Acc # 130254.

4. Reviewed by: Daniel Rieder
Wildlife Biologist
Section 2, EEB5. Date Reviewed: Sept 27, 19826. Test Type:: 48-hour LC50Species: Rainbow Trout (Salmo gairdneri)Test Material: Bravo® W-757. Results: 48-hr LC50 = 152 ppb 95% confidence levels = 134 to 173 ppb8. Conclusions The study was scientifically conducted and provides supplemental information. It does not fulfill guideline requirements for a 96-hour toxicity test with the technical product because it was only a 48-hour test and the formulated product was used. It shows that Bravo® W-75 is highly toxic to rainbow trout.

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Methods

The test material was Bravo® W-75. Six test levels were used (49, 32, 21, 14, 87, and 56 ppb), no control was reported. Twenty fish (10 per 15 liter, glass container) were tested at each level. The average fish weight was 1.44 gm, so the loading factor was about 1 gram / liter. The test was conducted for 48 hours.

Results

The 48 hour LC50 = 152 ppb 95% C.L.=134 to 173 ppb.

<u>Concentration</u>	<u>Number tested</u>	<u>Mortality (48-hour)</u>
56	20	0
87	20	0
140	20	0
210	20	18
320	20	20
490	20	20

Discussion

The study was a 48-hour LC50 test Bravo® W75, a formulated product was the test material.

No control was reported.

Conclusions

Category: Supplemental

Rationale: See "Discussion" above.

Repairability: Not repairable to core.